



# SPYWOLF

## Security Audit Report



Completed on  
**May 3, 2023**

@SPYWOLFNETWORK



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# OVERVIEW

This audit has been prepared for **Gatsby Inu** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# Gatsby Inu



## PROJECT DESCRIPTION

### **According to their website:**

Gatsby inu (\$gatsby) is a project built on the bsc chain platform. Gatsby inu is built and inspired by the friendship between humans and animals. and we took a dog as an inspiration because this is a loyal animal. In addition, by applying many exclusive features such as nft, staking, launchpad, dex dapp, gamefi... Gatsby will build a huge ecosystem where members will be able to earn profits, share information sharing.

**Release Date:** Presale starts in May, 2023

**Category:** Meme token

01



# CONTRACT INFO

Token Name

Gatsby Inu

Symbol

GATSBY

Contract Address

0x24B8c36437d7878A2b1F9f7E71B412F0c70460C4

Network

Binance Smart Chain

Language

Solidity

Deployment Date

May 03, 2023

Verified?

Yes

Total Supply

100,000,000,000,000,000

Status

Not launched

## TAXES

Buy Tax

**10%**

Sell Tax

**10%**

\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



## TOKEN TRANSFERS STATS

Transfer Count	2
Uniq Senders	2
Uniq Receivers	2
Total Amount	2500000000000000000 GATSBY
Median Transfer Amount	5000000000000000000 GATSBY
Average Transfer Amount	5000000000000000000 GATSBY
First transfer date	2023-05-03
Last transfer date	2023-05-03
Days token transferred	1

## SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2023-05-03 10:40:49 UTC
Created	2023-05-03 10:40:49 UTC
Create TX	0x5834093fd1a3943bf99fc7a5e137a11f671d27fbd2a7e1ffffcb9de0b64f44e4
Creator	0x68f46fa80d18af76e73c1f1697c999efbe067836





# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## ⚠ High Risk

**Owner can disable trading and exclude address from such limitations.** When trading is disabled, addresses which are not excluded will be unable to buy/sell/transfer tokens.

```
function setUnLockBuySell(bool value) public onlyOwner {
    unlockBuySell = value;
}

function isNotLockBuySell(address _user) public view returns (bool){
    return whitelistBuySell[_user] || unlockBuySell;
}

function _transfer(
    address from,
    address to,
    uint256 amount
)
    private
{
    require(isNotLockBuySell(from), "Gatsby: Lock");
    .....
}
```

- Recommendation:
  - Considered as good practice is once enabled, trading should not be disabled again.



# FOUND THREATS

## ⚠ Medium Risk

**Owner can set buy/sell fees up to 25%.**

Combined buy+sell = 50%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
uint256 private _maxFee;
_maxFee = 2500;

function addTier(
    uint256 _ecoSystemFee, uint256 _liquidityFee, uint256 _taxFee, uint256 _ownerFee,
    uint256 _burnFee, address _ecoSystem, address _owner ) public onlyOwner {
    _addTier(_ecoSystemFee, _liquidityFee, _taxFee, _ownerFee, _burnFee, _ecoSystem, _owner);
}

function _addTier(uint256 _ecoSystemFee, uint256 _liquidityFee, uint256 _taxFee,
    uint256 _ownerFee, uint256 _burnFee, address _ecoSystem, address _owner
) internal returns (FeeTier memory) {
    FeeTier memory _newTier = checkFees(
        FeeTier(_ecoSystemFee, _liquidityFee, _taxFee, _ownerFee, _burnFee, _ecoSystem, _owner)
    );
    excludeFromReward(_ecoSystem);
    excludeFromReward(_owner);
    excludeFromFee(_ecoSystem);
    excludeFromFee(_owner);
    feeTiers.push(_newTier);

    return _newTier;
}

function calculateFee(uint256 _amount, uint256 _fee) private pure returns (uint256) {
    if (_fee == 0) return 0;
    return _amount.mul(_fee).div(10**4);
}

function setEcoSystemFeePercent(uint256 _tierIndex, uint256 _ecoSystemFee) external onlyOwner checkTierIndex(_tierIndex) {
    .....
}
function setLiquidityFeePercent(uint256 _tierIndex, uint256 _liquidityFee) external onlyOwner checkTierIndex(_tierIndex) {
    .....
}
function setTaxFeePercent(uint256 _tierIndex, uint256 _taxFee) external onlyOwner checkTierIndex(_tierIndex) {
    .....
}
function setOwnerFeePercent(uint256 _tierIndex, uint256 _ownerFee) external onlyOwner checkTierIndex(_tierIndex) {
    .....
}
function setBurnFeePercent(uint256 _tierIndex, uint256 _burnFee) external onlyOwner checkTierIndex(_tierIndex) {
    .....
}
```

- Recommendation:
  - Considered as good practice is buy and sell fees combined not to exceed 25%.



## Informational

Owner can withdraw any tokens from the contract.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function withdrawBnb(uint256 _amount) public onlyOwner {  
    payable(msg.sender).transfer(_amount);  
}  
  
function withdrawToken(address _token, uint256 _amount) public onlyOwner {  
    IGatsbyInu(_token).transfer(msg.sender, _amount);  
}
```

Owner can set max transaction limit without limitation.

If max transaction limit is set to low number, this can lead to inability sell.

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {  
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(10**4);  
}
```

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFee(address account) public onlyOwner {  
    _isExcludedFromFee[account] = true;  
}
```

Owner can set fee tier for address, applying the assigned tier fees.

```
function whitelistAddress(address _account, uint256 _tierIndex) public onlyOwner {  
    require(_account != address(0), "Gatsby: Invalid address");  
    _accountsTier[_account] = _tierIndex;  
}
```



## Informational

Owner can add new fee tiers.

```
function addTier(
    uint256 _ecoSystemFee,
    uint256 _liquidityFee,
    uint256 _taxFee,
    uint256 _ownerFee,
    uint256 _burnFee,
    address _ecoSystem,
    address _owner
) public onlyOwner {
    _addTier(_ecoSystemFee, _liquidityFee, _taxFee, _ownerFee, _burnFee, _ecoSystem, _owner);
}

function _addTier(
    uint256 _ecoSystemFee,
    uint256 _liquidityFee,
    uint256 _taxFee,
    uint256 _ownerFee,
    uint256 _burnFee,
    address _ecoSystem,
    address _owner
) internal returns (FeeTier memory) {
    FeeTier memory _newTier = checkFees(
        FeeTier(_ecoSystemFee, _liquidityFee, _taxFee, _ownerFee, _burnFee, _ecoSystem, _owner)
    );
    excludeFromReward(_ecoSystem);
    excludeFromReward(_owner);
    excludeFromFee(_ecoSystem);
    excludeFromFee(_owner);
    feeTiers.push(_newTier);

    return _newTier;
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## Gatsby Inu

### GOOD PRACTICES FOUND

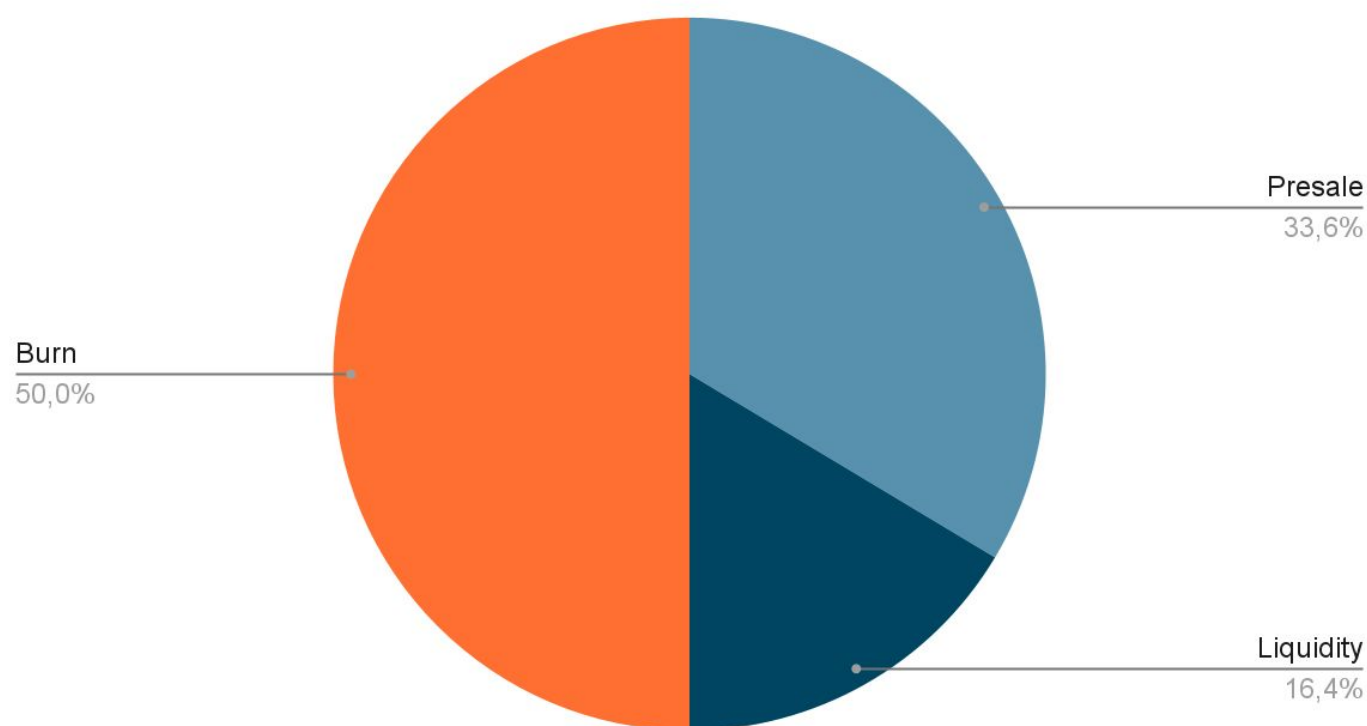
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner can set a transaction limit but cannot lower it than 25% of total supply.
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- 33.6% - Presale
- 16.4% - Liquidity
- 50% - Burn

Tokens distribution



TOKENOMICS





# THE TEAM

! The team is anonymous

## KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





# WEBSITE

## Website URL

<https://gatsbyinu.io/>

## Domain Registry

<https://www.namecheap.com/>

## Domain Expiration

2024-04-16

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page design with appropriate color scheme and graphics.

## Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

## Whitepaper

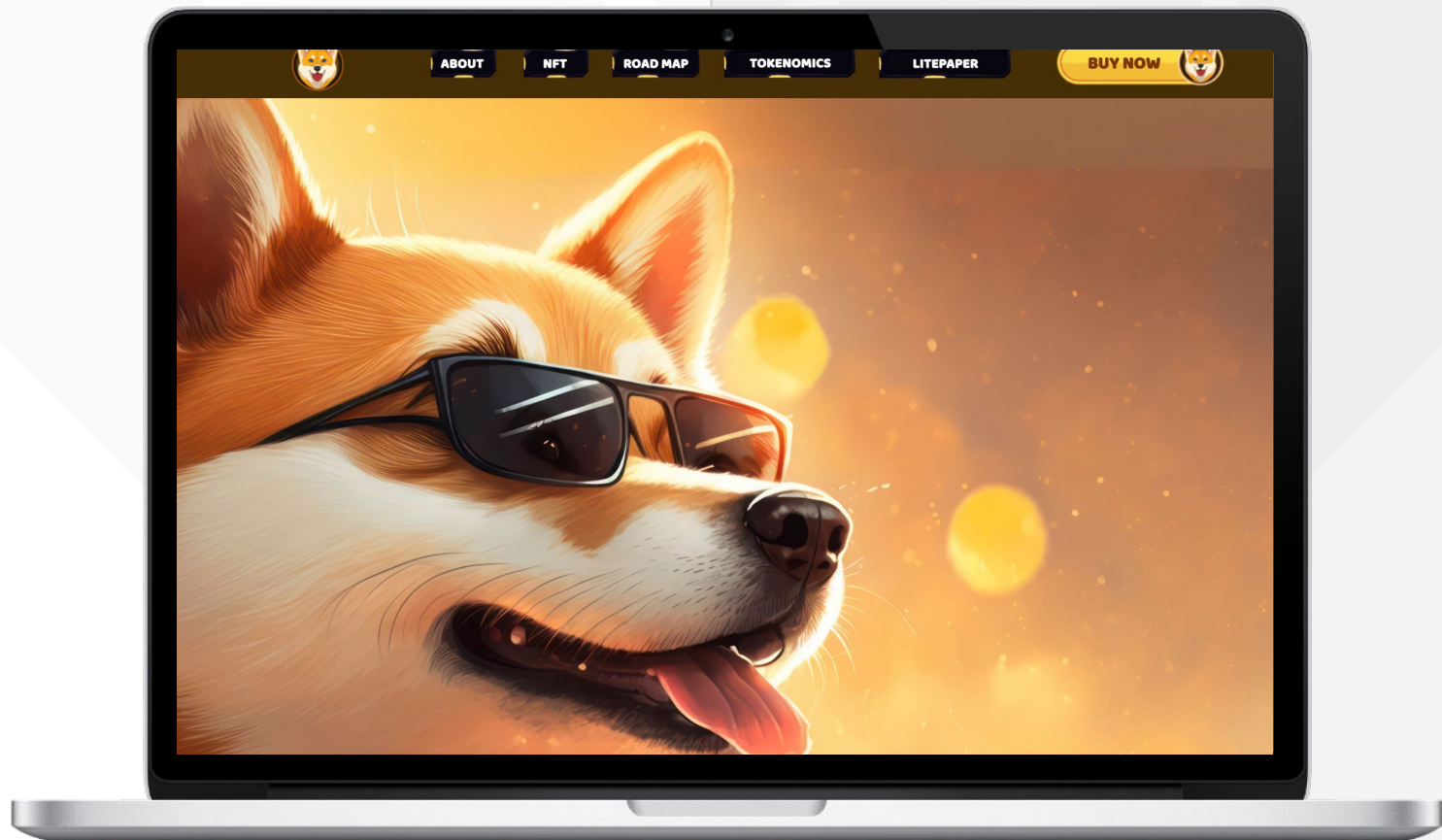
Explanatory.

## Roadmap

Yes, goals set without time frames.

## Mobile-friendly?

Yes



# gatsbyinu.io

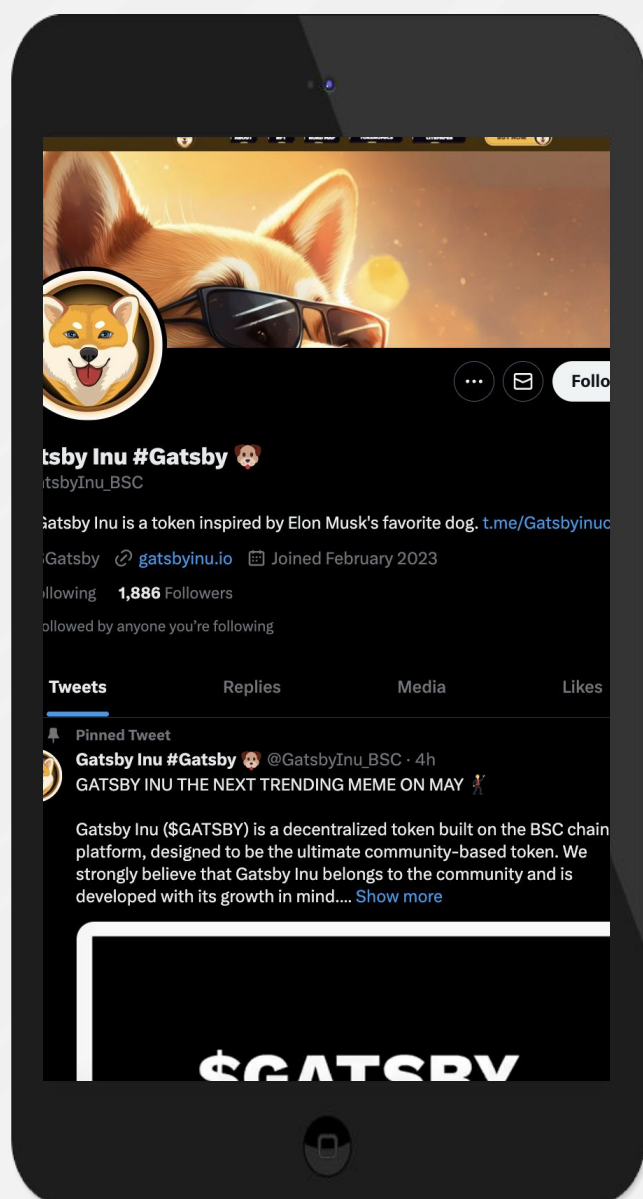


# SOCIAL MEDIA & ONLINE PRESENCE



## ANALYSIS

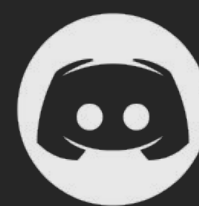
Project's social media  
pages are active



**Twitter**

@GatsbyInu\_BSC

- 2 001 followers
- Posts frequently
- Active



**Discord**

- Not available



**Telegram**

@Gatsbyinuchannel

- 3 007 members
- Announcement channel



**Medium**

- Not available



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.